## **CLAIMS**

## What is claimed is:

1	1.	An integrated circuit	(IC)	comprising:
•		1 HI HILOGIATOA OHOAIT	$\cdot$	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

- 2 at least one circuit element;
- a node coupled to the at least one circuit element;
- 4 at least one non-floating terminal on a surface of the IC;
- 5 at least one floating terminal on the surface of the IC; and
- at least one coupling element to couple any combination of the at least one
- 7 floating terminal and the at least one non-floating terminal to the node.
- 1 2. The IC recited in claim 1 wherein the node is from the group consisting of power
- 2 nodes, ground nodes, and input/output nodes.
- 1 3. The IC recited in claim 1 wherein the at least one floating terminal comprises a
- 2 capacitive element.
- 1 4. The IC recited in claim 3 wherein the capacitive element comprises a connector
- 2 element, at least one dielectric layer, and a conductor that can be selectively coupled to
- 3 the node.
- 1 5. The IC recited in claim 4 wherein the connector element comprises a solder
- 2 bump.
- 1 6. The IC recited in claim 1 wherein the coupling element comprises selector logic
- 2 coupled to the at least one floating terminal, to the at least one non-floating terminal, and
- 3 to the node, and comprising at least one control input.

- 1 7. An integrated circuit (IC) comprising:
- 2 a plurality of circuit elements;
- a plurality of nodes coupled to the plurality of circuit elements;
- 4 a plurality of non-floating terminals on a surface of the IC;
- 5 at least one floating terminal on the surface of the IC; and
- 6 selector logic coupled to the terminals and to the plurality of nodes to couple any
- 7 combination of the at least one floating terminal and one of the plurality of non-floating
- 8 terminals to one of the plurality of nodes.
- 1 8. The IC recited in claim 7 wherein the one node is from the group consisting of
- 2 power nodes, ground nodes, and input/output nodes.
- 1 9. The IC recited in claim 7 wherein the at least one floating terminal comprises a
- 2 capacitive element.
- 1 10. The IC recited in claim 9 wherein the capacitive element comprises a connector
- 2 element, at least one dielectric layer, and a conductor that can be selectively coupled to
- 3 the one node.
- 1 11. The IC recited in claim 10 wherein the connector element comprises a solder
- 2 bump.
- 1 12. The IC recited in claim 7 wherein the selector logic comprises at least one control
- 2 input and further comprises at least one output to selectively couple any combination of
- 3 the at least one floating terminal and one of the plurality of non-floating terminals to the
- 4 one node.

- 1 13. An electronic assembly comprising:
- 2 an integrated circuit (IC) comprising:
- at least one circuit element;
- 4 a node coupled to the at least one circuit element;
- 5 at least one floating terminal on the surface of the IC; and
- at least one coupling element to switchably couple the at least one floating
- 7 terminal to the node; and
- 8 an IC package substrate comprising a plurality of pads and internal circuit paths,
- 9 including at least one pad and at least one internal circuit path to couple to the at least
- 10 one floating terminal.
- 1 14. The electronic assembly recited in claim 13 wherein the at least one floating
- 2 terminal comprises a capacitive element, and wherein the capacitive element comprises a
- 3 connector element coupled to the at least one pad, at least one dielectric layer, and a
- 4 conductor to be switchably coupled to the node.
- 1 15. The electronic assembly recited in claim 13 wherein the at least one coupling
- 2 element comprises selector logic coupled to the at least one floating terminal and to the
- 3 node, and comprising at least one control input.
- 1 16. A method of testing an integrated circuit (IC) comprising a plurality of circuit
- 2 elements and a plurality of terminals including at least one floating terminal, the method
- 3 comprising:
- 4 testing the IC;
- 5 identifying at least one circuit element that is not optimally functioning; and
- 6 coupling the at least one floating terminal to the at least one circuit element.

- 1 17. The method recited in claim 16 wherein the IC is from the group consisting of a
- 2 microprocessor, a microcontroller, a graphics processor, a digital signal processor, an
- 3 application-specific integrated circuit, a memory circuit, a communications circuit, an
- 4 artificial intelligence circuit, a neural network, a logic circuit, a computational circuit, a
- 5 processing circuit, a sensing circuit, a transducer circuit, a power circuit, an amplifying
- 6 circuit, a data conversion circuit, a data transmission circuit, a data receiving circuit, a
- 7 custom circuit, and a control circuit.
- 1 18. The method recited in claim 16 wherein the IC comprises a plurality of floating
- 2 terminals and selector logic coupled to the plurality of floating terminals, and wherein the
- 3 method further comprises:
- 4 providing at least one control signal to the selector logic; and
- 5 the selector logic coupling at least one floating terminal to the at least one circuit
- 6 element.
- 1 19. The method recited in claim 18 wherein the IC further comprises a plurality of
- 2 non-floating terminals, and wherein the method further comprises:
- 3 providing at least one control signal to the selector logic; and
- 4 the selector logic coupling at least one floating terminal and at least one non-
- 5 floating terminal to the at least one circuit element.
- 1 20. The method recited in claim 18 wherein the IC further comprises a plurality of
- 2 non-floating terminals, and wherein the method further comprises:
- 3 providing at least one control signal to the selector logic; and
- 4 the selector logic coupling either a floating terminal or a non-floating terminal,
- 5 but not both, to the at least one circuit element.

- 1 21. The method recited in claim 16 wherein the IC further comprises a plurality of
- 2 floating and non-floating terminals, and selector logic coupled to the floating and non-
- 3 floating terminals, and wherein the method further comprises:
- 4 providing at least one control signal to the selector logic; and
- 5 the selector logic coupling any combination of floating and non-floating terminals
- 6 to the at least one circuit element.
- 1 22. The method recited in claim 16 wherein the IC comprises at least one floating
- 2 power terminal, at least one non-floating power terminal, at least one floating ground
- 3 terminal, at least one non-floating ground terminal, the terminals being coupled to the at
- 4 least one circuit element, and the IC further comprising selector logic coupled to the
- 5 terminals, and wherein the method further comprises:
- 6 providing at least one control signal to the selector logic; and
- 7 the selector logic coupling any combination of floating and non-floating terminals
- 8 to the at least one circuit element.
- 1 23. The method recited in claim 22 wherein the IC further comprises at least one
- 2 floating input/output (I/O) terminal, and at least one non-floating I/O terminal, the at least
- 3 one floating I/O terminal and the at least one non-floating I/O terminal being coupled to
- 4 the at least one circuit element and to the selector logic, and wherein the method further
- 5 comprises:
- 6 providing at least one control signal to the selector logic; and
- the selector logic coupling any combination of floating and non-floating terminals
- 8 to the at least one circuit element.

- 1 24. A method of fabricating an integrated circuit (IC) comprising a circuit element
- 2 and a plurality of non-floating terminals coupled to the circuit element, the method
- 3 comprising:
- 4 determining a subset of the plurality of non-floating terminals whose operational
- 5 characteristics may require adjustment when the IC is operating; and
- 6 providing a floating terminal for each of the subset of non-floating terminals.
- 1 25. The method recited in claim 24 wherein the operational characteristics comprise
- 2 resistive-capacitive (RC) characteristics.
- 1 26. The method recited in claim 24 wherein at least one of the subset of non-floating
- 2 terminals is from the group consisting of a power terminal, a ground terminal, and an
- 3 input/output terminal.
- 1 27. The method recited in claim 24 and further comprising:
- 2 providing an IC package substrate comprising a plurality of pads and internal
- 3 circuit paths, including at least one pad and at least one internal circuit path to couple to
- 4 each of the floating terminals; and
- 5 mounting the IC on the IC package substrate.
- 1 28. The integrated circuit recited in claim 1 wherein the at least one circuit element is
- 2 selected from the group consisting of a digital logic circuit, an analog circuit, a power
- 3 circuit, a sense circuit, an amplifier circuit, and a radio circuit.
- 1 29. The integrated circuit recited in claim 1 wherein the at least one circuit element
- 2 comprises an inverter circuit.